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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/534,946	03/24/2000	Frank R. Ruderman	MBHB00-203	1964
20306 7590 01/30/2009 MCDONNELL BOEHNEN HULBERT & BERGHOFF LLP			EXAM	IINER
300 S. WACKER DRIVE		NAJARIAN, LENA		
32ND FLOOR CHICAGO, IL	60606		ART UNIT	PAPER NUMBER
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1	UNITED STATES PATENT AND TRADEMARK OFFICE
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4	BEFORE THE BOARD OF PATENT APPEALS
5	AND INTERFERENCES
6	
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8	Ex parte FRANK R. RUDERMAN and DAVID T. SHEWMAKE
9	
10	1 2000 1042
11	Appeal 2008-1943
12	Application 09/534,946
13	Technology Center 3600
14 15	
16	Decided: January 30, 2009
17	Decided. January 30, 2009
18	
19	Before MURRIEL E. CRAWFORD, DAVID B. WALKER, and JOSEPH A
20	FISCHETTI, Administrative Patent Judges.
21	
22	CRAWFORD, Administrative Patent Judge.
23	
24	
25	DECISION ON APPEAL
26	
27	STATEMENT OF THE CASE
28	Appellants appeal under 35 U.S.C. § 134 (2002) from a Final
29	Rejection of claims 22 to 28 and 38. We have jurisdiction under 35 U.S.C.
30	§ 6(b) (2002).

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1	Appellants invented a cardiovascular healthcare management system
2	that identifies patients who do not have hyperlipidemia based on total LDL
3	cholesterol and total HDL cholesterol, but are in need of treatment. The
4	cardiovascular healthcare management system includes a diagnostic engine
5	which analyzes patient test results for subclasses of LDL and HDL including
6	HDL 2b (Specification 1, 14 to 15).
7	Claim 38 under appeal reads as follows:
8	38. A cardiovascular healthcare
9	management system comprising:
10	(a) an infomediary site having databases for
11	cardiovascular healthcare management which
12	includes a database of test results of concentration
13	of subclasses of LDL particles and subclasses of
14	HDL particles from at least 900 cardiovascular
15	patients;
16	(b) a data entry interface for receiving
17	patient personal data and test results for
18	concentration of subclasses of LDL particles and
19	subclasses of HDL particles storing the data and
20	results in the infomediary site databases;
21	(c) a diagnostic engine for analyzing patient
22	test results for subclasses of LDL particles,
23	subclasses of HDL particles data and identifying
24	patients who do not have hyperlipidemia based on
25	total LDL cholesterol and total HDL cholesterol,
26	but are in need of treatment; and
27	(d) wherein the subclasses of LDL particles
28	and subclasses of HDL particles are levels
29	determined by segmented gradient gel
30	eletrophoresis and wherein the particle sub-classes
31	include HDL 2b.
32	

1	The Examiner rejo	ected claims 22, 24 to 28	38 and 38 under 35 U.S.C. §
2	103(a) as being unpatent	able over Levin in view	of Otvos, Krauss, and
3	Appellants' Admitted Pr	rior Art ("AAPA").	
4	The Examiner rejo	ected claim 23 under 35	U.S.C. § 103(a) as being
5	unpatentable over Levin	, Otvos, Krauss, AAPA	and Surwit.
6	The prior art relie	d upon by the Examiner	in rejecting the claims on
7	appeal is:		
8 9 10 11 12 13	Levin Krauss Surwit Otvos Appellants' Admitted Pr	US 5,724,580 US 5,925,229 US 6,024,699 US 6,576,471 B2	Mar. 3, 1988 Jul. 20, 1999 Feb. 15, 2000 Jun. 10, 2003 age 1 of the Specification.
14 15	Appellants conten	d that the cited prior art	does not include a
16	diagnostic engine which	analyzes test results for	patients of levels of LDL
17	and HDL subclasses for	identifying patients who	o do not have hyperlipidemia
18	based on total LDL chol	esterol and total HDL cl	nolesterol, but are in need of
19	treatment and wherein th	ne particle subclasses inc	clude HDL 2b.
20			
21		ISSUES	
22	Have Appellants s	shown that the Examiner	r erred in holding that the
23	prior art discloses a diag	nostic engine, which an	alyzes test results for
24	patients of levels of LDI	and HDL subclasses for	or identifying patients who
25	do not have hyperlipider	mia based on total LDL	cholesterol and total HDL
26	cholesterol but are in nee	ed of treatment and whe	rein the particle subclasses
27	include HDL 2b.		

1	FINDINGS OF FACT
2	FF1. Appellants disclose at page 1 of the Specification that:
3	The art describes cardiovascular risk factors
4	such as age, smoking, weight, family history,
5	blood pressure, lipid profiles including low density
6	lipoprotein (LDL) and high density lipoprotein
7	(HDL) and subclasses (fractions) of LDL and
8	HDL. Methods for measuring these factors and
9	relating them to patient treatment are also known.
0	
1	FF2. Levin discloses a system for managing coronary disease having
12	databases for cardiovascular healthcare management which includes
13	database test results including LDL and HDL concentrations to calculate
14	total cholesterol (Figure 4, col. 8, ll. 21 to 47).
15	FF3. Otvos discloses that commercially prepared lipid panels only
16	include total cholesterol, total HDL and total LDL rather than LDL and HDL
17	subclass information. (Col. 1, 11. 43 to 48). Otvos discloses that NMR
18	analysis provides information about four subclasses of LDL and five
19	subclasses of HDL (col. 1, 11. 48 to 52). Otvos discloses that various
20	subclasses of lipoproteins may provide more reliable markers of the
21	metabolic conditions that predispose individuals to a greater or lesser risk of
22	heart disease (col. 1, 1l. 59 to 62). Otvos discloses that using LDL subclass
23	information may reveal a patient that does not have lipid profile indicating
24	high risk when the total LDL is considered, but is still in need of treatment
25	(col. 16, ll. 53 to 57). In Figure 11, Otvos depicts that an examination of the
26	total HDL concentration of 32 mg/dl results in a positive risk factor when
27	the large HDL subclass which is 11 nmo/L is examined, it too results in a

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1 positive risk factor. As such, Otvos does not disclose that an advantage can 2 be achieved by examining the large HDL subclass. 3 Krauss does not disclose a diagnostic engine for analyzing patient test results for subclasses of LDL particles, subclasses of HDL particles, and 4 5 identifying patients who do not have hyperlipidemia based on total LDL 6 cholesterol and total HDL cholesterol, but are in need of treatment wherein 7 the particle subclasses include HDL 2b. 8 9 PRINCIPLES OF LAW 10 The test for obviousness is what the combined teachings of the 11 references would have suggested to one of ordinary skill in the art. See In re 12 Kahn, 441 F.3d 977, 987-88 (Fed. Cir. 2006); In re Young, 927 F.2d 588, 13 591 (Fed. Cir. 1991) and *In re Keller*, 642 F.2d 413, 425 (CCPA 1981). 14 Rejections on obviousness grounds cannot be sustained by mere 15 conclusory statements; instead, there must be some articulated reasoning 16 with some rational underpinning to support the legal conclusion of 17 obviousness. In re Kahn, 441 F.3d 977, 988 (Fed. Cir. 2006). A finding of 18 obviousness can be based on the effects of demands known to the design 19 community or present in the marketplace; or the background knowledge 20 possessed by a person having ordinary skill in the art, as support for his 21 conclusion that there existed at the time of the invention an apparent reason 22 to modify the sleeve nut and grommet of Borst in the manner claimed. See KSR Int'l Co. v. Teleflex Inc., 550 U.S. 398, ____, 127 S. Ct. 1727, 1740-41 23 24 (2007).25

1	ANALYSIS
2	Rejection of claims 22, 24 to 28 and 38
3	We will not sustain the Examiner's Rejection. Although we agree
4	with the Examiner that Otvos discloses that more risk factors can be
5	determined when subclasses of LDL are examined, Otvos does not disclose
6	that examination of HDL subclasses leads to the same advantage. In fact, a
7	review of Figure 11 of Otvos indicates that the total HDL concentration lead
8	to one risk factor and the large HDL also lead to one risk factor and as such
9	does not disclose that an advantage is obtained by examining HDL
10	subclasses. And while the Appellants' Specification discloses that
11	subclasses of LDL or HDL may be considered risk factors, the Specification
12	does not disclose which subclass concentrations are considered risk factors.
13	Further, none of the references discloses that the subclasses analyzed must
14	include HDL 2b or any reason to include HDL 2b. Therefore, there is no
15	reason to include subclass HDL 2b in Levin as modified by Otvos system.
16	In view of the foregoing, we will not sustain the Examiner's rejection
17	of claim 38 and claims 22 and 24 to 28 dependent thereon.
18	We will also not sustain the Examiner's rejection of claim 23 as being
19	unpatentable over Levin, Otvos, AAPA, Krauss and Surwit because claim 23
20	depends from claim 38, and Surwit does not cure the deficiencies noted
21	above for the Levin, Otvos, Krauss, AAPA combination.
22	
23	CONCLUSION OF LAW
24	On the record before us, Appellants have shown that the Examiner
25	erred in rejecting the appealed claims.

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1	DECISION
2	The Examiner's rejection of claims is reversed.
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4	REVERSED
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11	hh
12 13 14 15 16	MCDONNELL BOEHNEN HULBERT & BERGHOFF, LLP 300 S. WACKER DRIVE 32ND FLOOR CHICAGO, IL 60606